Abstract of the Disclosure

~~X-ray detector comprising a scintillator with photosensor coating, and production process~~

~~The invention relates to a~~An X-ray detector is~~(1)~~ for a CT device and includes~~(13) having~~ a phosphor layer ~~(3)~~ for generating electromagnetic radiation as a function of the occurrence of X-radiation, and ~~having~~ a photodetector layer ~~(9)~~ for detecting the electromagnetic radiation generated by the phosphor layer ~~(3)~~. ~~According to the invention, t~~The phosphor layer includes~~(3) consists of~~ ceramic material and the photodetector layer ~~(9) consists of~~includes organic material. ~~The invention also relates to a~~A process is further for producing an X-ray detector ~~(1) of this type~~, including ~~comprising~~ the ~~process~~ steps of producing a phosphor layer ~~(3)~~ from a ceramic material and applying a photodetector layer ~~(9)~~ made from an organic material to the phosphor layer via~~(3) by means of~~ a spinning, printing or beam/jet process or by sticking it on as a film. It is optionally possible to provide a further process step for polishing the surface of the phosphor layer ~~(3)~~ before applying the photodetector layer ~~(9)~~.

~~FIG. 2~~